

CPC**COOPERATIVE PATENT CLASSIFICATION****B66B**

ELEVATORS; ESCALATORS OR MOVING WALKWAYS ({ apparatus for raising or lowering persons on theatrical stages or the like [A63J 5/12](#)}; funicular railbound systems with rigid ground-supported tracks and cable traction, e.g. cliff railways, [B61B 9/00](#); arrangements of ammunition handlers in vessels [B63G 3/00](#); hoists, lifts, or conveyers for loading or unloading in general B65G; braking or detent devices controlling normal movements of winding drums or barrels B66D; ship-lifting devices E02C; garages for many vehicles with mechanical means for lifting vehicles [E04H 6/12](#); hoists for feeding ammunition or projectiles to launching apparatus or to loading mechanisms [F41A 9/00](#))

NOTE

In this subclass, the following term is used with the meaning indicated:

- "elevator" covers the term "lift", and the two terms are interchangeable

Common features of elevators**B66B 1/00**

Control systems of elevators in general (safety devices [B66B 5/00](#); controlling door or gate operation [B66B 13/00](#); systems of general application [G05](#))

- B66B 1/02 . Control systems without regulation, i.e. without retroactive action
- B66B 1/04 . . hydraulic
- B66B 1/06 . . electric
- B66B 1/08 . . . with devices, e.g. handles or levers, in the cars or cages for direct control of movements
- B66B 1/10 specially adapted for mining hoists
- B66B 1/12 . . . with devices, e.g. handles or levers, located at a control station for direct control movements, e.g. electric mining-hoist control systems
- B66B 1/14 . . . with devices, e.g. push-buttons, for indirect control of movements
- B66B 1/16 with means for storing pulses controlling the movements of a single car or cage ({[B66B 1/2433](#) takes precedence})
- B66B 1/18 with means for storing pulses controlling the movements of several cars or cages ({[B66B 1/2458](#) takes precedence})
- B66B 1/20 and for varying the manner of operation to suit particular traffic conditions, e.g. "one-way rush-hour traffic", ({[B66B 1/2466](#) takes precedence})
- B66B 1/22 with means for taking account of delayed calls
- B66B 1/24 . Control systems with regulation, i.e. with retroactive action, for influencing travelling speed, acceleration, or deceleration
- B66B 1/2408 . . { where the allocation of a call to an elevator car is of importance, i.e. by means of a supervisory or group controller}
- B66B 1/2416 . . . { For single car elevator systems}

- B66B 1/2433 . . . { For elevator systems with a single shaft and multiple cars}
- B66B 1/2458 . . . { For elevator systems with multiple shafts and a single car per shaft}
- B66B 1/2466 . . . { For elevator systems with multiple shafts and multiple cars per shaft}
- B66B 1/2491 . . . { For elevator systems with lateral transfers of cars or cabins between hoistways}
- B66B 1/26 .. mechanical
- B66B 1/28 .. electrical (detecting excessive speed [B66B 5/04](#)); {(control of electrical motor H02P)}
- B66B 1/285 . . . { with the use of a speed pattern generator}

WARNING

[B66B 1/28](#)

- B66B 1/30 . . . effective on driving gear, { e.g. acting on power electronics, on inverter or rectifier controlled motor}
- B66B 1/302 { for energy saving}
- B66B 1/304 { with starting torque control}
- B66B 1/306 { with DC powered elevator drive}
- B66B 1/308 { with AC powered elevator drive}
- B66B 1/32 . . . effective on braking devices, { e.g. acting on electrically controlled brakes (brake control H02P, lift brakes per se [B66B 5/02](#))}
- B66B 1/34 . Details, { e.g. call counting devices, data transmission from car to control system, devices giving information to the control system}
- B66B 1/3407 .. { Setting or modification of parameters of the control system}
- B66B 1/3415 .. { Control system configuration and the data transmission or communication within the control system}
- B66B 1/3423 . . . { Control system configuration, i.e. lay-out}
- B66B 1/343 { Fault-tolerant or redundant control system configuration}
- B66B 1/3438 { Master-slave control system configuration}
- B66B 1/3446 . . . { Data transmission or communication within the control system}
- B66B 1/3453 { Procedure or protocol for the data transmission or communication}
- B66B 1/3461 { between the elevator control system and remote or mobile stations}
- B66B 1/3469 .. {mechanical}
- B66B 1/3476 .. {Load weighing or car passenger counting devices ([B66B 5/14](#) takes precedence)}
- B66B 1/3484 . . . { using load cells}
- B66B 1/3492 .. {Position or motion detectors or driving means for the detector ([B66B 1/40](#), [B66B 1/50](#) take precedence; length measuring [G01B](#); speed measuring [G01P](#))}
- B66B 1/36 .. Means for stopping the cars, cages, or skips at predetermined levels
- B66B 1/365 . . . {mechanical}
- B66B 1/38 . . . and for returning the controlling handle or lever to its neutral position
- B66B 1/40 . . . and for correct levelling at landings
- B66B 1/405 { for hydraulically actuated elevators}
- B66B 1/42 separate from the main drive
- B66B 1/425 { adapted for multi-deck cars in a single car frame}

- B66B 1/44 . . . and for taking account of disturbance factors, e.g. variation of load weight
- B66B 1/46 . . Adaptations of switches or switchgear ([switches or switchgear in general](#), [applications of switches or switchgear for floor-levelling purpose H01H](#); panels for boards or switching arrangements [H02B 1/015](#))
 - B66B 1/461 . . . { characterised by their shape or profile}
 - B66B 1/462 { Mechanical or piezoelectric input devices}
 - B66B 1/463 { Touch sensitive input devices}
 - B66B 1/465 { being resistant to damage}
 - B66B 1/466 { facilitating maintenance, installation, removal, replacement or repair}
 - B66B 1/467 . . . { characterised by their mounting position}
 - B66B 1/468 . . . {Call registering systems}
 - B66B 1/48 . . . Adaptations of mechanically-operated limit switches ([for cranes B66C 13/50](#); [for winding mechanisms B66D 1/56](#))
 - B66B 1/50 . . . with operating or control mechanisms mounted in the car or cage or in the lift well or hoistway
 - B66B 1/52 . . . Floor selectors

B66B 3/00 Applications of devices for indicating or signalling operating conditions of elevators

- B66B 3/002 . { Indicators}
- B66B 3/004 . . { Mechanical devices that can be illuminated}
- B66B 3/006 . . { for guiding passengers to their assigned elevator car}
- B66B 3/008 . . { Displaying information not related to the elevator, e.g. weather, publicity, internet or TV}
- B66B 3/02 . Position or depth indicators
 - B66B 3/023 . . { characterised by their mounting position}
 - B66B 3/026 . . { Mechanical devices that can be illuminated}

B66B 5/00 Application of checking, fault-correcting, or safety devices in elevators

- B66B 5/0006 . { Monitoring devices or performance analysers ([B66B 5/02](#) takes precedence)}
- B66B 5/0012 . . { Devices monitoring the users of the elevator system}
- B66B 5/0018 . . { Devices monitoring the operating condition of the elevator system}
 - B66B 5/0025 . . . { for maintenance or repair}
 - B66B 5/0031 . . . { for safety reasons}
 - B66B 5/0037 . . {Performance analysers}
- B66B 5/0043 . { Devices enhancing safety during maintenance}
- B66B 5/005 . . { Safety of maintenance personnel}
 - B66B 5/0056 . . . { by preventing crushing}
 - B66B 5/0062 { by devices, being operable or not, mounted on the elevator car}
 - B66B 5/0068 { by activating the safety brakes when the elevator car exceeds a certain upper or lower position in the elevator shaft}

- B66B 5/0075 { by anchoring the elevator car or counterweight}
- B66B 5/0081 . . . { by preventing falling by means of safety fences or handrails, being operable or not, mounted on top of the elevator car}
- B66B 5/0087 . { Devices facilitating maintenance, repair or inspection tasks (devices incorporated in the buffer [B66B 5/288](#); railings on top of the car [B66B 11/0226](#))}
- B66B 5/0093 . . { Testing of safety devices}
- B66B 5/02 . responsive to abnormal operating conditions
- B66B 5/021 . . { the abnormal operating conditions being independent of the system (alarm systems in general G08B)}
- B66B 5/022 . . . { where the abnormal operating condition is caused by a natural event, e.g. earthquake}
- B66B 5/024 . . . { where the abnormal operating condition is caused by an accident, e.g. fire}
- B66B 5/025 . . . { where the abnormal operating condition is caused by human behaviour or misbehaviour, e.g. forcing the doors}
- B66B 5/027 . . {to permit passengers to leave an elevator car in case of failure, e.g. moving the car to a reference floor or unlocking the door}
- B66B 5/028 . . {Safety devices separate from control system in case of power failure, for hydraulic lifts, e.g. braking the hydraulic jack ([B66B 5/16](#) takes precedence)}
- B66B 5/04 . . for detecting excessive speed
- B66B 5/042 . . . { with characteristic location of the governor cable}
- B66B 5/044 . . . { Overspeed governors}
- B66B 5/046 { of the pendulum or rocker arm type}
- B66B 5/048 . . . {Testing of overspeed governor}
- B66B 5/06 . . . electrical
- B66B 5/08 . . for preventing overwinding
- B66B 5/10 . . . electrical
- B66B 5/12 . . in case of rope or cable slack
- B66B 5/125 . . . {electrical}
- B66B 5/14 . . in case of excessive loads
- B66B 5/145 . . . {electrical}
- B66B 5/16 . . Braking or catch devices operating between cars, cages, or skips and fixed guide elements or surfaces in hoistway or well
- B66B 5/18 . . . and applying frictional retarding forces
- B66B 5/185 { by acting on main ropes or main cables}
- B66B 5/20 by means of rotatable eccentrically-mounted members ([B66B 5/24](#) takes precedence)
- B66B 5/22 by means of linearly-movable wedges ([B66B 5/24](#) takes precedence)
- B66B 5/24 by acting on guide ropes or cables
- B66B 5/26 . . . Positively-acting devices, e.g. latches, knives
- B66B 5/28 . . Buffer-stops for cars, cages, or skips
- B66B 5/282 . . { Structure thereof}
- B66B 5/284 . . { mounted on cars or counterweights}
- B66B 5/286 . . . { between two cars or two counterweights}

B66B 5/288 .. { with maintenance features (if not incorporated in the buffer [B66B 5/0087](#))}

B66B 7/00

Other common features of elevators

- B66B 7/02 . Guideways; Guides ([arrangements in mine shafts E21D 7/02](#))
- B66B 7/021 .. { with a particular position in the shaft}
- B66B 7/022 .. { with a special shape}
- B66B 7/023 .. { Mounting means therefor}
- B66B 7/024 ... { Lateral supports}
- B66B 7/025 ... { End supports, i.e. at top or bottom}
- B66B 7/026 ... { Interconnections}
- B66B 7/027 ... { for mounting auxiliary devices}
- B66B 7/028 .. { with earthquake protection devices}
- B66B 7/04 .. { Riding means, e.g.} Shoes, Rollers, { between car and guiding means, e.g. rails, ropes (rollers adapted to match the shape of a special guiding means [B66B 7/02](#); vibration attenuation systems acting between car and its supporting frame [B66B 11/026](#))}
- B66B 7/041 ... {including active attenuation system for shocks, vibrations}
- B66B 7/042 {with rollers, shoes}
- B66B 7/043 {using learning}
- B66B 7/044 {with magnetic or electromagnetic means}
- B66B 7/045 {using learning}
- B66B 7/046 ... { Rollers}
- B66B 7/047 ... { Shoes, sliders}
- B66B 7/048 ... {including passive attenuation system for shocks, vibrations}
- B66B 7/06 . Arrangements of ropes or cables
- B66B 7/062 .. { Belts}
- B66B 7/064 .. { Power supply or signal cables}
- B66B 7/066 .. { Chains}
- B66B 7/068 .. {Cable weight compensating devices}
- B66B 7/08 .. for connection to the cars or cages, e.g. couplings
- B66B 7/085 ... { Belt termination devices}
- B66B 7/10 .. for equalising rope or cable tension
- B66B 7/12 . Checking, lubricating, or cleaning means for ropes, cables or guides
- B66B 7/1207 .. { Checking means}
- B66B 7/1215 ... { specially adapted for ropes or cables}
- B66B 7/1223 { by analysing electric variables}
- B66B 7/123 { by analysing magnetic variables}
- B66B 7/1238 { by optical techniques}
- B66B 7/1246 ... {specially adapted for guides}
- B66B 7/1253 .. { Lubricating means}
- B66B 7/1261 ... {specially adapted for ropes or cables}

- B66B 7/1269 . . . { specially adapted for guides}
- B66B 7/1276 . . { Cleaning means}
- B66B 7/1284 . . . { specially adapted for ropes or cables}
- B66B 7/1292 . . . { specially adapted for guides}

Lifts in, or associated with, buildings

B66B 9/00

Kinds or types of lifts in, or associated with, buildings or other structures
(characterised by control systems [B66B 1/00](#); apparatus for raising or lowering persons on stages of theatres [A63J 5/12](#))

- B66B 9/003 . { for lateral transfer of car or frame, e.g. between vertical hoistways or to/from a parking position}
- B66B 9/02 . actuated mechanically otherwise than by rope or cable
- B66B 9/022 . . { by rack and pinion drives}
- B66B 9/025 . . { by screw-nut drives}
- B66B 9/027 . . { by rope climbing devices}
- B66B 9/04 . actuated pneumatically or hydraulically (platforms for lifting or lowering through short distances [B66F 7/00](#))
- B66B 9/06 . inclined, e.g. serving blast furnaces
- B66B 9/08 . . associated with stairways, e.g. for transporting disabled persons {(facilitating access of invalids to vehicles [A61G 3/02](#))}
- B66B 9/0807 . . . {Driving mechanisms}
- B66B 9/0815 {Rack and pinion, friction rollers}
- B66B 9/0823 {Screw and nut}
- B66B 9/083 {Pull cable, pull chain}
- B66B 9/0838 . . . {Levelling gears}
- B66B 9/0846 . . . {Guide rail ([B66B 9/0807](#) takes precedence)}
- B66B 9/0853 . . . {Lifting platforms, e.g. constructional features}
- B66B 9/0861 . . . {Hanging lifts, e.g. rope suspended seat or platform}
- B66B 9/0869 . . . {Collapsible stairways, e.g. operable between a lower level and an upper level}
- B66B 9/10 . Paternoster type (with devices for transferring goods into, or out of, the compartments [B65G 17/00](#))
- B66B 9/16 . Mobile or transportable lifts specially adapted to be shifted from one part of a building or other structure to another part or to another building or structure (devices for lifting or lowering bulky or heavy goods for loading or unloading purposes [B66F 9/00](#), e.g. fork-lift trucks [B66B 9/06](#))
- B66B 9/187 . . with a liftway specially adapted for temporary connection to a building or other structure ([B66B 9/193](#) takes precedence)
- B66B 9/193 . . with inclined liftways

B66B 11/00	Main component parts of lifts in, or associated with, buildings or other structures
B66B 11/0005	. { Constructional features of hoistways}
B66B 11/001	. { Arrangement of controller, e.g. location}
B66B 11/0015	.. { in the machine room}
B66B 11/002	.. { in the hoistway}
B66B 11/0025	... { on the car}
B66B 11/003	... { on the counterweight }
B66B 11/0035	. { Arrangement of driving gear, e.g. location or support}
B66B 11/004	.. { in the machine room}
B66B 11/0045	.. { in the hoistway}
B66B 11/005	... { on the car}
B66B 11/0055	... { on the counterweight}
B66B 11/006	. { Applications of loading and unloading equipment for lifts associated with buildings (of general application B65G ; for paternoster lifts B65G 17/00 ; for mine lifts B66B 17/14)}
B66B 11/0065	. {Roping (Mining hoist B66B 15/08)}
B66B 11/007	.. { for counterweightless elevators }
B66B 11/0075	.. {with hoisting rope or cable positively attached to a winding drum}
B66B 11/008	.. {with hoisting rope or cable operated by frictional engagement with a winding drum or sheave}
B66B 11/0085	... { of rucksack elevators}
B66B 11/009	... { with separate traction and suspension ropes}
B66B 11/0095	... { where multiple cars drive in the same hoist way}
B66B 11/02	. Cages, { i.e. cars}(doors, gates or other apparatus controlling access to, or exit from, cages B66B 13/00)
B66B 11/0206	.. { Car frames}
B66B 11/0213	... { for multi-deck cars}
B66B 11/022	.... { with changeable inter-deck distances}
B66B 11/0226	.. {Constructional features, e.g. walls assembly, decorative panels, comfort equipment, thermal or sound insulation}
B66B 11/0233	... {Lighting systems}
B66B 11/024	... {Ventilation systems}
B66B 11/0246	... { Maintenance features (devices facilitating maintenance in general B66B 5/0087)}
B66B 11/0253	... { Fixation of wall panels}
B66B 11/026	.. {Attenuation system for shocks, vibrations, imbalance, e.g. passengers on the same side (acting between car or supporting frame and guides B66B 7/04 ; acting between car and ropes, cables B66B 7/08 ; correcting levelling between car and floor B66B 1/40)}
B66B 11/0266	... { Passive systems (aerodynamic structure B66B 11/0226)}

- B66B 11/0273 {acting between car and supporting frame}
- B66B 11/028 . . . { Active systems}
- B66B 11/0286 {acting between car and supporting frame}
- B66B 11/0293 . . . {Suspension locking or inhibiting means to avoid movement when car is stopped at a floor (locking car to building while loading to avoid movement [B66B 17/34](#))}

- B66B 11/04 . . Driving gear; { Details thereof, e.g. seals (braking devices acting on the driving gear [B66B 5/02](#); of mining-hoist winding devices [B66B 15/08](#))}
- B66B 11/0407 . . {actuated by an electrical linear motor (in the counterweight [B66B 17/12](#))}
- B66B 11/0415 . . {actuated manually, e.g. additional safety system}
- B66B 11/0423 . . {actuated pneumatically or hydraulically}
- B66B 11/043 . . {actuated by rotating motor; Details, e.g. ventilation (Roping on drum, sheave, winch or pulley [B66B 11/0065](#); Power supply or control [B66B 1/28](#), [H02P](#); Motor construction [H02K](#))}
- B66B 11/0438 . . . {with a gearless driving, e.g. integrated sheave, drum or winch in the stator or rotor of the cage motor}
- B66B 11/0446 . . . {with screw-nut or worm-screw gear}
- B66B 11/0453 . . . {with planetary or epicycloidal gear, e.g. differential gear}
- B66B 11/0461 . . . {with rack and pinion gear}
- B66B 11/0469 . . . {with chain, pinion gear}
- B66B 11/0476 . . . {with friction gear, e.g. belt linking motor to sheave}
- B66B 11/0484 . . . {with a clutch or a coupling system between several motors, e.g. switching different speeds, progressive starting, torque limitation, flywheel (control [B66B 1/28](#))}
- B66B 11/0492 . . { actuated by other systems, e.g. combustion engines}
- B66B 11/06 . . with hoisting rope or cable positively attached to a winding drum {[B66B 11/0075](#) takes precedence}
- B66B 11/08 . . with hoisting rope or cable operated by frictional engagement with a winding drum or sheave {[B66B 11/008](#) takes precedence}

- B66B 13/00** **Doors, gates, or other apparatus controlling access to, or exit from, cages or lift well landings (door fittings, locks [E05](#))**

- B66B 13/02 . . Door or gate operation (of general application [E05F](#))
- B66B 13/04 . . of swinging doors
- B66B 13/06 . . of sliding doors
- B66B 13/08 . . . guided for horizontal movement
- B66B 13/10 . . . by car or cage movement
- B66B 13/12 . . Arrangements for effecting simultaneous opening or closing of cage and landing doors
- B66B 13/125 . . . {electrical}
- B66B 13/14 . . Control systems or devices
- B66B 13/143 . . . {electrical}
- B66B 13/146 { method or algorithm for controlling doors}
- B66B 13/16 . . . Door or gate locking devices controlled or primarily controlled by condition of

		cage, e.g. movement or position
B66B 13/165	....	{electrical}
B66B 13/18	....	without manually-operable devices for completing locking or unlocking of doors
B66B 13/185	.....	{electrical}
B66B 13/20	.....	Lock mechanisms actuated mechanically by abutments or projections on the cages
B66B 13/22	.	Operation of door or gate contacts
B66B 13/24	.	Safety devices in passenger lifts, not otherwise provided for, for preventing trapping of passengers
B66B 13/245	..	{mechanical}
B66B 13/26	..	between closing doors
B66B 13/28	..	between car or cage and wells
B66B 13/285	...	{ Toe guards or apron devices}
B66B 13/30	.	Constructional features of doors or gates (of interest apart from this application E06B)
B66B 13/301	..	{ Details of door sills}
B66B 13/303	..	{ Details of door panels}
B66B 13/305	...	{ Slat doors for elevators}
B66B 13/306	..	{ Details of door jambs}
B66B 13/308	..	{ Details of seals and joints}

Lifts in hoistways of mines

B66B 15/00 Main component parts of mining-hoist winding devices

B66B 15/02	.	Rope or cable carriers
B66B 15/04	..	Friction sheaves; "Koepe" pulleys
B66B 15/06	..	Drums
B66B 15/08	.	Driving gear

B66B 17/00 Hoistway equipment

B66B 17/02	.	mounted in head-frames (winding towers for mines E04H 12/26)
B66B 17/04	.	Mining-hoist cars or cages
B66B 17/06	..	with tiltable platforms
B66B 17/08	.	Mining skips
B66B 17/10	..	adapted for passenger transport
B66B 17/12	.	Counterpoises

- B66B 17/14 . Applications of loading and unloading equipment (of general application [B65G](#))
- B66B 17/16 . . for loading and unloading mining-hoist cars or cages
- B66B 17/18 . . . Swinging bridges, e.g. for compensating for differences in level between car or cage and landing
- B66B 17/20 . . . by moving vehicles into, or out of, the cars or cages
- B66B 17/22 . . . Securing vehicles in cars or cages
- B66B 17/24 mounted on the car or cage
- B66B 17/26 . . for loading or unloading mining-hoist skips
- B66B 17/28 . . electrically controlled (for elevators in general [B66B 1/06](#))
- B66B 17/30 . . . for cars or cages
- B66B 17/32 . . . for skips
- B66B 17/34 . Safe lift clips; Keps
- B66B 17/36 . Gates or other apparatus controlling access to, or exit from, cars, cages, or hoistway landings

B66B 19/00 Mining-hoist operation

- B66B 19/002 . { installing or exchanging guide rails (details of rails [B66B 7/02](#))}
- B66B 19/005 . { installing or exchanging the elevator drive}
- B66B 19/007 . { method for modernisation of elevators}
- B66B 19/02 . installing or exchanging ropes or cables
- B66B 19/04 . installing or removing mining-hoist cars, cages, or skips
- B66B 19/06 . Applications of signalling devices (depth indicators [B66B 3/02](#); order telegraphs [G08B](#))

B66B 20/00 Elevators not provided for in groups [B66B 1/00](#) to [B66B 19/00](#)

Escalators or moving walkways

B66B 21/00 Kinds or types of escalators or moving walkways

- B66B 21/02 . Escalators
- B66B 21/025 . . { of variable speed type}
- B66B 21/04 . . Linear type
- B66B 21/06 . . Spiral type
- B66B 21/08 . . Paternoster type, i.e. the escalator being used simultaneously for climbing and descending ([B66B 21/06](#) takes precedence)
- B66B 21/10 . Moving walkways

- B66B 21/12 . . . of variable speed type
- B66B 23/00** **Component parts of escalators or moving walkways**
- B66B 23/02 . Driving gear
- B66B 23/022 . . { with polygon effect reduction means}
- B66B 23/024 . . { Chains therefor}
- B66B 23/026 . . { with a drive or carrying sprocket wheel located at end portions}
- B66B 23/028 . . { with separate drive chain or belt that engages directly the carrying surface chain}
- B66B 23/04 . . for handrails
- B66B 23/06 . . . with means synchronising the operation of the steps or the carrying belts and the handrails
- B66B 23/08 . Carrying surfaces
- B66B 23/10 . . Carrying belts
- B66B 23/12 . . Steps
- B66B 23/14 . Guiding means for carrying surfaces
- B66B 23/145 . . { Roller assemblies}
- B66B 23/147 . . N: End portions, i.e. means for changing the direction of the carrying surface]
- B66B 23/16 . Means allowing tensioning of the endless member
- B66B 23/18 . . for carrying surfaces
- B66B 23/20 . . for handrails
- B66B 23/22 . Balustrades
- B66B 23/225 . . { Lighting systems therefor}
- B66B 23/24 . . Handrails (driving gear therefor [B66B 23/02](#); tensioning means therefor [B66B 23/16](#); preventing jamming thereof by foreign objects [B66B 29/04](#); accessories therefor [B66B 31/02](#))
- B66B 23/26 . . . of variable speed type
- B66B 25/00** **Control of escalators or moving walkways** (walkways of variable speed type [B66B 21/12](#); handrails of variable speed type [B66B 23/26](#); of general application [G05](#))
- B66B 25/003 . { Methods or algorithms therefor}
- B66B 25/006 . { Monitoring for maintenance or repair (for security reasons [B66B 29/005](#))}
- B66B 27/00** **Indicating operating conditions of escalators or moving walkways** (of general application [G08](#))
- B66B 29/00** **Safety devices of escalators or moving walkways** (walkways of variable speed type [B66B 21/12](#); handrails of variable speed type [B66B 23/26](#))
- B66B 29/005 . { Applications of security monitors}

B66B 29/02	. responsive to, or preventing, jamming by foreign objects
B66B 29/04	. . for balustrades or handrails
B66B 29/06	. . Combplates
B66B 29/08	. Means to facilitate passenger entry or exit (moving handrails B66B 23/24)
B66B 31/00	Accessories for escalators, or moving walkways, e.g. for sterilising or cleaning (for safety B66B 29/00)
B66B 31/003	. { for cleaning steps or pallets}
B66B 31/006	. {for conveying hand carts, e.g. shopping carts (hand carts per se B62B 1/00 , B62B 3/00)}
B66B 31/02	. for handrails
B66B 2001/00	Control systems of elevators in general (safety devices B66B 5/00; controlling door or gate operation B66B 13/00; systems of general application G05)
B66B 2001/24	. Control systems with regulation, i.e. with retroactive action, for influencing travelling speed, acceleration, or deceleration
B66B 2001/2408	. . { where the allocation of a call to an elevator car is of importance, i.e. by means of a supervisory or group controller}
B66B 2001/2416	. . . { For single car elevator systems}
B66B 2001/2425	. . . . { Zone definition for two cars in the same hatchway}
B66B 2001/2433	. . . { For elevator systems with a single shaft and multiple cars}
B66B 2001/2441	. . . . { with the use of a speed pattern generator}
B66B 2001/245	. . . . { for high-speed elevators which do not attain the maximum speed during shorts runs (control of acceleration and deceleration G05B 19/407)}
B66B 2001/2466	. . . { For elevator systems with multiple shafts and multiple cars per shaft}
B66B 2001/2475	. . . . { by using cost function computing}
B66B 2001/2483	. . . . { by predicting the traffic, e.g. with statistical or learning procedures}
B66B 2009/00	Kinds or types of lifts in, or associated with, buildings or other structures (characterised by control systems B66B 1/00; apparatus for raising or lowering persons on stages of theatres A63J 5/12)
B66B 2009/006	. Ganged elevator
B66B 2009/06	. inclined, e.g. serving blast furnaces
B66B 2009/08	. . associated with stairways, e.g. for transporting disabled persons {(facilitating access of invalids to vehicles A61G 3/02)}
B66B 2009/0876	. . . Details
B66B 2009/0884	. . . . Control systems

B66B 2009/0892 Seats` constructional features

B66B 2023/00 Component parts of escalators or moving walkways

B66B 2023/14 . Guiding means for carrying surfaces

B66B 2023/142 . . paternoster return type system

B66B 2201/00 Aspects of control systems of elevators

B66B 2201/10 . Details with respect to the type of call input

B66B 2201/101 . . Single call input

B66B 2201/102 . . Up or down call input

B66B 2201/103 . . Destination call input before entering the elevator car

B66B 2201/104 . . Call input for a preferential elevator car or indicating a special request

B66B 2201/20 . Details of the evaluation method for the allocation of a call to an elevator car

B66B 2201/21 . . Primary evaluation criteria

B66B 2201/211 . . Waiting time, i.e. response time

B66B 2201/212 . . Travel time

B66B 2201/213 where the number of stops is limited

B66B 2201/214 . . Total time, i.e. arrival time

B66B 2201/215 . . Transportation capacity

B66B 2201/216 . . Energy consumption

B66B 2201/22 . . Secondary evaluation criteria

B66B 2201/221 . . Penalisation of transfers

B66B 2201/222 . . Taking into account the number of passengers present in the elevator car to be allocated

B66B 2201/223 . . Taking into account the separation of passengers or groups

B66B 2201/224 . . Avoiding potential interference between elevator cars

B66B 2201/225 . . Taking into account a certain departure interval of elevator cars from a specific floor, e.g. the ground floor

B66B 2201/226 . . Taking into account the distribution of elevator cars within the elevator system, e.g. to prevent clustering of elevator cars

B66B 2201/23 . . Other aspects of the evaluation method

B66B 2201/231 . . Sequential evaluation of plurality of criteria

B66B 2201/232 where the time needed for a passenger to arrive at the allocated elevator car from where the call is made is taken into account

B66B 2201/233 . . Periodic re-allocation of call inputs

B66B 2201/234 . . Taking into account uncertainty terms for predicted values, e.g. the predicted arrival time of an elevator car at the floor where a call is made

B66B 2201/235 . . Taking into account predicted future events, e.g. predicted future call inputs

B66B 2201/24 . . Control of empty elevator cars

B66B 2201/241	..	Standby control
B66B 2201/242	..	Parking control
B66B 2201/243	..	Distribution of elevator cars, e.g. based on expected future need
B66B 2201/30	.	Details of the elevator system configuration
B66B 2201/301	..	Shafts divided into zones
B66B 2201/302	...	with variable boundaries
B66B 2201/303	..	Express or shuttle elevators
B66B 2201/304	..	Transit control
B66B 2201/305	...	with sky lobby
B66B 2201/306	..	Multi-deck elevator cars
B66B 2201/307	..	Tandem operation of multiple elevator cars in the same shaft
B66B 2201/308	..	Ganged elevator cars
B66B 2201/34	.	details
B66B 2201/40	.	Details of the change of control mode
B66B 2201/401	..	by time of the day
B66B 2201/402	..	by historical, statistical or predicted traffic data, e.g. by learning
B66B 2201/403	..	by real-time traffic data
B66B 2201/404	..	by cost function evaluation
B66B 2201/405	..	by input of special passenger or passenger group
B66B 2201/406	..	by input of human supervisor
B66B 2201/46	..	Switches or switchgear
B66B 2201/4607	...	Call registering systems
B66B 2201/4615	....	Wherein the destination is registered before boarding
B66B 2201/4623	....	Wherein the destination is registered after boarding
B66B 2201/463	....	Wherein the call is registered through physical contact with the elevator system
B66B 2201/4638	....	Wherein the call is registered without making physical contact with the elevator system
B66B 2201/4646	.....	using voice recognition
B66B 2201/4653	....	wherein the call is registered using portable devices
B66B 2201/4661	....	for priority users
B66B 2201/4669	.....	using passenger condition detectors
B66B 2201/4676	....	for checking authorization of the passengers
B66B 2201/4684	....	for preventing accidental or deliberate misuse
B66B 2201/4692	....	for payment for use